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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,614	07/30/2003	Won-Youl Choi	277/006	6106
7590 06/22/2005		EXAMINER		
LEE & STERBA, P.C. Suite 2000			SCHINDLER, DAVID M	
1101 Wilson Boulevard			ART UNIT	PAPER NUMBER
Arlington, VA 22209			2862	

DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary		10/629,614	CHOI ET AL.	
		Examiner	Art Unit	
		David Schindler	2862	
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet wit	h the correspondence address	
THE - Ext afte - If th - If N - Fail	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 et SIX (6) MONTHS from the mailing date of this communication. et period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period for the provision of	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication and the mailing date of this communication and the mailing date.	
Status				
		action is non-final. nce except for formal matte		
Disposi	tion of Claims			
5) 6) 7)	Claim(s) <u>1-64</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-64</u> are subject to restriction and/or of	wn from consideration.		
Applica	tion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to be drawing(s) be held in abeyand tion is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d)
Priority	under 35 U.S.C. § 119			
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document polication from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	oplication No received in this National Stage	

Bot Ledynh Attachment(s) 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Office Action Summary

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _

5) Notice of Informal Patent Application (PTO-152)

6) Other: _

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-31, drawn to a printed circuit board integrated with a two-axis fluxgate sensor, classified in class 324, subclass 253.
- II. Claims 32-64, drawn to a method for manufacturing a printed circuit board integrated with a two-axis fluxgate sensor, classified in class 438, subclass 14.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case invention I can be made by a process not requiring plating both sides of a second substrate and etching the plated sides of the second substrate, as the product as claimed can be made by a materially different process such as by screen printing.
- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 5. A telephone call was made to Eugene Lee on 6/06/2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Schindler whose telephone number is (571) 272-2112. The examiner can normally be reached on M-F (8:00 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J

David Schindler

Bot Ledynh Primary Examiner